SIEMENS

SIREMOBIL

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Installation Instructions

DICOM Connect Extension

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The document corresponds to the version/revision level effective at the time of system delivery.

Revisions to hardcopy documentation are not automatically distributed.

Please contact your local Siemens office to order current revision levels.

Disclaimer

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Safety information

⚠WARNING

Danger of physical injuries or even death as well as property damage!

Please note:

- **the product-specific safety information in these instructions,**
- **the general safety information in these instructions TD00-000.860.01... and**
- **the general safety information according to ARTD Part 2.**

Non-compliance can lead to death or physical injuries or to property damages.

⚠WARNING

Electrical voltage!
Non-compliance can lead to death or physical injuries or to property damages.

The voltage-conducting parts are exposed after removing the covers of the system. To avoid danger the system must be disconnected from the line voltage before removing the covers.
To do this, either pull out the power plug, or switch off the power to the line voltage connection of the system and secure it against being turned on again.

If work that involves electrical voltage is necessary, observe the general safety information in the instructions TD00-000.860.01... .

⚠WARNING

Danger of infection by pathogenic agents!
Non-compliance can lead to death or physical injuries.

This device is approved for use in operating rooms and can be contaminated with infectious blood or other bodily excretions.

Avoid any skin contact with blood or other bodily excretions!
For this reason, comply strictly with the preventative measures against infectious diseases stipulated in ARTD-002.731.37... .

⚠CAUTION

Electrostatic voltage!
Non-compliance can lead to property damage.

Observe the ESD guidelines when working.

⚠CAUTION	**Danger of burns on hot parts or components!** **Non-compliance can lead to light to medium burns, primarily on the hands.** **After the covers are removed, parts or components (e. g. power-related parts, cooling fins, magnetic brakes) are exposed that can reach operating temperatures > 50° Celsius. To avoid burns switch off the power to the system and allow a cooling off period of at least 5 minutes before touching parts or components.**

Prerequisites

NOTE	**These instructions are valid for the installation, start-up and service of a DICOM Connect Extension in a SIREMOBIL Compact, SIREMOBIL Compact L, SIREMOBIL Iso-C, POWERMOBIL and ARCOSKOP.** **The customer-specific data necessary for start-up must be obtained from the customer or the customer's system administrator during the installation on the basis of the documentation for the DICOM Connect Extension which is included with delivery.**

Documents required

According to the system in use:

SIREMOBIL Compact - Wiring diagram	G5429
SIREMOBIL Compact - Logbook	SPR2-130.066.01...
or	
SIREMOBIL Iso-C - Wiring diagram	G5464
SIREMOBIL Iso-C - Logbook	SPR2-230.066.01...
or	
POWERMOBIL - Wiring diagram	G5481
POWERMOBIL - System manual	SPR2-240.802.01...
or	
ARCOSKOP - Wiring diagram	G5484
ARCOSKOP - System manual	SPR2-250.802.01...

Tools and measuring equipment required

NOTE	**All tools and measuring equipment, with the exception of those marked with "*"; are listed with their specificiations in the STC (Service Tool Catalogue).**

Standard tool kit (see ARTD / Part 3) *

1 set of Allen wrenches *

DMM	(e.g. Fluke 8060A, Part No. 97 02 101 Y4290)
Oscilloscope > 50MHz	(e.g. Tektronix 2232, Part No. 97 02 234 Y3155)
Protective conductor meter or safety tester	(e.g. Safety Tester Bender UNIMET 1000 ST, Part No. 51 38 727)

Installing the DICOM Connect Extension

- Remove the rear cover of the monitor trolley.
- Remove the dummy cover of the bottom plate in the upper compartment of the monitor trolley. Leave the lateral dummy covers as they are.
- From the back side of the monitor trolley, push the entire frame of the DICOM Connect Extension into the upper compartment of the monitor trolley. There is no need to attach the frame with screws.

Wiring

The components mounted on the frame are already wired to one another.
The connections to the system and the hospital network still have to be established:

- Protective ground wire
- Power line
- Video cable
- Remote line
- Network connection

Extra ground wire for the DICOM Connect Extension

- Run the extra protective ground wire from the frame for the DICOM Connect Extension to the ground wire clamp of the monitor trolley and clamp or plug them in.

Power cable

- Pull the power cable for the multiple socket of the DICOM Connect Extension into the lateral cable duct of the monitor trolley and run it to clamping point X2 of the switch-on subassembly.
- Connect the ground wire to a terminal of the ground wire terminal strip.
- Connect the blue and brown wire of the power cable to terminal X2.1 and X2.2.

Video cable

NOTE	**Several video components can be installed in the monitor trolley. If this is the case, the video cables of all the video components are connected in series. Make sure that the video cable for the video input of the DICOM Connect PC (Framegrabber plug-in card) is the last video component connected, since the 75-ohm terminating resistor cannot be disabled.**

With no additional video components in the monitor trolley.

- Run the video cable for the DICOM Connect Extension through the lateral cable duct of the monitor trolley to the Memoskop, plug it into the Memoskop and lock it in position.

With additional video components in the monitor trolley

- Run the video cable for the DICOM Connect Extension to the last video component connected in series and plug it onto the output socket of the video component. Disable the 75-ohm terminating resistor on this video component.

Remote cable

With no additional video components in the monitor trolley.

- Run the remote cable included with delivery from the DICOM Connect Extension through the lateral cable duct of the monitor trolley to the Memoskop and plug into the "Printer" connector; screw into place.
- Plug the remote cable (permanently connected with the DICOM Connect keyboard) into the round DIN plug of the remote cable and lock in place.

With additional video components in the monitor trolley

NOTE	**The remote cable is already plugged into the "Printer" plug on the Memoskop. The remote plug of the Multispot Camera (round DIN plug) is used as the remote line for the DICOM Connect Extension.**

- Plug the remote cable (permanently connected with the DICOM Connect keyboard) into the round DIN plug of the existing remote cable and lock in place.

Network connection

- On the back of the monitor trolley, take off the cover of the logbook compartment (the cover has 4 screws).
- Remove the dummy cover which is mounted on the logbook compartment cover.
- Install the network terminal plate included with delivery in place of the dummy cover. Beforehand, thread the network cable through the square cut-out.
- Run the network cable through the lateral cable duct of the monitor trolley to the DICOM Connect subassembly and plug it into the network card of the DICOM Connect PC (RJ45 socket labelled "Lan").

- Refit the logbook compartment cover on the monitor trolley. Be careful of the ground wire connection when doing this.
- Plug the hospital network cable into the network socket, which is now accessible from the outside. The network cable outside of the monitor trolley leading to the hospital network is not included with delivery.

Final work

- Insert this manual in the system manual binder, Register 3.
- Refit all the covers of the system. Make sure the ground wire connections are correct when doing this.
- Perform the protective ground wire test according to ARTD-002.731.17.... The protective ground wire resistance must not exceed 0.2 ohms.

Startup

- The startup must be performed according to the documentation of the DICOM Connect Extension included with delivery.
- If any covers must be opened again during startup, then it is necessary to repeat the protective ground wire test according to ARTD-002.731.17... after concluding startup and refitting all covers. The protective ground wire resistance must not exceed 0.2 ohms.

Notes on maintenance

The DICOM Connect Extension is practically maintenance-free. The ventilation slots for the PC should be cleaned as part of the yearly maintenance of the system.

Notes on service

The DICOM Connect Extension is serviced at the component level.
Available spare parts are included in the spare parts lists for the system.

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